

10 receptacle is defined by a first thermally conductive wall and a plurality of secondary thermally  
11 conductive walls and [is] said medical item support structure is manipulable relative to said housing  
12 to facilitate entry and removal of said [corresponding] at least one medical item within said system;  
13 a temperature sensor for measuring a temperature of said heating chamber; and  
14 a heater for applying heat to said first wall of each said receptacle;  
15 wherein said secondary walls of said each receptacle are arranged to conduct heat  
16 from the first wall of said each receptacle and distribute said conducted heat about said  
17 corresponding medical item contained within that receptacle to heat said corresponding medical item  
18 to said desired temperature; and  
19 a controller to facilitate entry of said desired temperature for said heating chamber and to  
20 control said heater to heat said at least one medical item to said desired temperature in response to  
21 said temperature measured by said temperature sensor.

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1 5(Twice Amended). A temperature control system for heating medical items to desired  
2 temperatures comprising:  
3 a system housing;  
4 a plurality of heating chambers disposed within said housing each for receiving at least one  
5 medical item and heating said at least one medical item to a corresponding desired temperature,  
6 wherein said each heating chamber includes:  
7 a medical item support structure to support said at least one medical item within that  
8 heating chamber and including at least one receptacle each for receiving a corresponding medical  
9 item and heating said corresponding medical item to said corresponding desired temperature,  
10 wherein said each receptacle is defined by a first thermally conductive wall and a plurality of

11 secondary thermally conductive walls;  
12 a temperature sensor for measuring a temperature of that heating chamber; and  
13 a heater for applying heat to said first wall of each said receptacle;  
14 wherein said secondary walls of said each receptacle are arranged to conduct heat  
15 from the first wall of said each receptacle and distribute said conducted heat about said  
16 corresponding medical item contained within that receptacle to heat said corresponding medical item  
17 to said corresponding desired temperature; and  
18 a plurality of controllers each associated with a respective heating chamber to facilitate entry  
19 of a desired temperature for that heating chamber and to control said heater of said respective heating  
20 chamber to heat at least one medical item contained within that heating chamber to said  
21 corresponding desired temperature in response to a temperature measured by said temperature sensor  
22 associated with said respective heating chamber.

1 8(Twice Amended). A temperature control system for heating medical items to desired  
2 temperatures comprising:

3 a system housing;

4 a plurality of heating chambers disposed within said housing each for receiving at least one  
5 medical item and heating said at least one medical item to a corresponding desired temperature,  
6 wherein at least two of said heating chambers are associated with different respective desired  
7 temperatures and said each heating chamber includes:

8 a medical item support structure to support said at least one medical item within that  
9 heating chamber and including at least one receptacle each for receiving a corresponding medical  
10 item and heating said corresponding medical item to said corresponding desired temperature,

11 wherein said each receptacle is defined by a first thermally conductive wall and a plurality of  
12 secondary thermally conductive walls;

13 a temperature sensor for measuring a temperature of that heating chamber; and

14 a heater for applying heat to said first wall of each said receptacle;

15 wherein said secondary walls of said each receptacle are arranged to conduct heat  
16 from the first wall of said each receptacle and distribute said conducted heat about said  
17 corresponding medical item contained within that receptacle to heat said corresponding medical item  
18 to said corresponding desired temperature; and

19 a controller to facilitate entry of a desired temperature for each heating chamber and to  
20 control said heater of said each heating chamber to heat said at least one medical item contained  
21 within that heating chamber to said corresponding desired temperature in response to a temperature  
22 measured by said temperature sensor associated with that heating chamber.

1 34(Twice Amended). In a temperature control system having at least one receptacle each for  
2 receiving a corresponding medical item, wherein each said receptacle is defined by a plurality of  
3 walls and is manipulable relative to [said] a system housing to facilitate entry and removal of said  
4 corresponding medical item within said system, a method of heating medical items to a desired  
5 temperature comprising the steps of:

6 (a) receiving at least one medical item within said at least one receptacle in response to  
7 manipulation of said at least one receptacle relative to said housing; [and]

8 (b) applying heat to a first wall of each said receptacle and conducting said applied heat from  
9 said first wall to remaining walls of that receptacle to distribute said conducted heat about a  
10 corresponding medical item contained within that receptacle; and

11

(c) controlling said heat applied to said first wall of each said receptacle in accordance with

a measured temperature of said at least one receptacle to heat said corresponding medical item to

said desired temperature.--

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